

II.—*Descriptions of new Reptiles and Batrachians from Colombia.* By G. A. BOULENGER, F.R.S.

THE new Reptiles and Batrachians described below form part of a collection made at Buenaventura, near the coast, and at Cali, on the west slope of the Cordillera, at an altitude of 3200 feet, by Mr. W. F. H. Rosenberg. A selection from the collection has been acquired by the Trustees of the British Museum, including the types of the new species.

Anolis Rosenbergii.

Allied to *A. bitectus*, Cope. Head twice as long as broad, slightly longer than the tibia; forehead deeply concave; frontal ridges indistinct; upper head-scales strongly keeled, on the end of the snout tricarinate; scales of the supraorbital semicircles enlarged, in contact with each other or separated by one series of scales; five to nine enlarged supraoculars; occipital larger than the ear-opening, separated from the supraorbitals by one or two series of scales; canthus rostralis angular; loreal rows six or seven; five upper labials to below the centre of the eye; ear-opening moderate, roundish. Gular appendage large; gular scales keeled. Body short, compressed; no dorso-nuchal crest. Dorsal scales large, hexagonal, juxtaposed, strongly keeled, in ten or twelve longitudinal series; lateral scales minutely granular; ventral scales larger than dorsals, rhomboidal, pointed, imbricate, sharply keeled. The adpressed hind limb reaches the eye; digits very feebly dilated; 16 lamellæ under phalanges II. and III. of the fourth toe. Tail rounded, slightly compressed at the base, twice and two thirds as long as head and body. No enlarged postanal scales. Pale greyish brown above; a white streak from below the eye to the middle of the side of the body, passing above the ear; a large dark light-edged spot on the upper surface of the tibia; a blackish blotch on each side of the body, in front of the hind limb; lower parts white; gular appendage bluish black, with series of white scales.

	millim.
Total length.....	163
Head.....	12
Width of head.....	6
Body.....	33
Fore limb.....	20
Hind limb.....	35
Tibia.....	11
Tail.....	118

Two specimens, male and half-grown, from near Buenaventura.

Anolis notopholis.

Allied to *A. tropidonotus*, Ptrs. Head once and two thirds to once and three fourths as long as broad, as long as the tibia; forehead concave; frontal ridges feebly marked, short and divergent; all the upper head-scales strongly keeled; scales of the supraorbital semicircles enlarged, in contact with each other or separated by one or two series of scales; two to five enlarged supraoculars; occipital feebly enlarged, separated from the supraorbitals by two or three series of scales; canthus rostralis angular; loreal rows six or seven; seven to nine upper labials to below the centre of the eye; ear-opening large, vertically oval. Gular appendage large; gular scales keeled. Body short, compressed; no dorso-nuchal fold. Dorsal scales very large, the largest fully twice as large as the ventrals, hexagonal, subimbricate, sharply keeled, forming eight or ten longitudinal series, the two median series formed of smaller scales; lateral scales very small, imbricate, keeled; ventral scales rhomboidal, rounded or truncate behind, sharply keeled. The adpressed hind limb reaches the nostril or the end of the snout; digits very slightly dilated; 14 or 15 lamellæ under phalanges II. and III. of the fourth toe. Tail slightly compressed, once and three fourths to twice as long as head and body. No enlarged postanal scales. Bronzy or golden above, with a series of large black oblique spots on each side of the back; a black stripe on each side of the nape, bifurcating on the back of the head, the outer branch extending to the eye; a black line from the eye to the nostril, below the canthus rostralis; lower parts pale golden; gular appendage vermilion-red.

	♂. millim.	♀. millim.
Total length	148	147
Head	14	15
Width of head	8	9
Body	34	37
Fore limb	21	22
Hind limb	42	46
Tibia	14	14
Tail	100	95

Several specimens from near Buenaventura.

Homalocranium longifrontale.

Eye about half as long as the snout. Rostral broader than
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deep, just visible from above; internasals not half as long as the præfrontals; frontal hexagonal, obtuse-angled in front, acute-angled behind, twice as long as broad, much longer than its distance from the end of the snout, shorter than the parietals; nostril between two nasals, the posterior widely separated from the præocular; two postoculars; temporals 1+1; seven upper labials, second in contact with the præfrontal, third and fourth entering the eye; first lower labial in contact with its fellow behind the symphysial; four lower labials in contact with the anterior chin-shields, which are longer than the posterior. Scales in 15 rows. Ventrals 158; anal divided; subcaudals 85. Pale brown above, with five dark brown longitudinal lines; head and nape black; a yellow band across the snout; a yellow blotch on each side of the head behind the eye; a round yellow spot on each side of the vertex, between the supraocular and the parietal, another pair on the back of the head between the parietal and the second temporal, and a yellow dot on each parietal near the median suture; the black of the nape bordered with yellow behind; a series of blackish dots along the outer row of scales; lower parts white.

Total length 1800 millim., tail 803.

A single male specimen from Cali.

Allied to *H. melanocephalum*, L., but distinguished by the longer frontal shield and the longer tail.

Leptognathus leucomelas.

Body strongly compressed. Eye large. Rostral a little broader than deep, not visible from above; internasals half as long as the præfrontals; frontal as long as broad, as long as its distance from the end of the snout, shorter than the parietals; nasal divided; loreal once and a half as long as broad, bordering the eye; no præocular; præfrontal entering the eye; two postoculars; temporals 1+2; seven upper labials, third and fourth entering the eye; first lower labial in contact with its fellow behind the symphysial; three pairs of chin-shields, first longer than broad. Scales in 15 rows; vertebrals strongly enlarged, the largest nearly twice as broad as long. Ventrals 188; anal entire; subcaudals 85. Dark grey above, spotted with black, with black white-edged annuli, some of which are broken on the vertebral line; head blackish, speckled with white; belly white, speckled and spotted with black, and irregularly barred by the black annuli.

Total length 570 millim., tail 130.

A single female specimen from Buenaventura.

Hylodes raniformis.

Tongue cordiform. Vomerine teeth in two short transverse series close together, behind the level of the choanæ. Head a little broader than long; snout obtusely pointed, longer than the diameter of the orbit, with angular canthus rostralis and concave loreal region; nostril much nearer the tip of the snout than the eye; interorbital region as broad as the upper eyelid; tympanum distinct, half the diameter of the eye. Fingers moderate, first longer than second; subarticular tubercles very strong; toes long, one-third webbed; disks moderate; a rather strong elliptical inner metatarsal tubercle; a very indistinct outer metatarsal tubercle. The tibio-tarsal articulation reaches beyond the tip of the snout. Skin smooth. Greyish olive above, with ill-defined darker spots; a light vertebral stripe sometimes present; a streak above the tympanum and below the canthus rostralis blackish; lips spotted with blackish; limbs dark-spotted or with very indistinct dark cross-bars; hinder side of thighs whitish, reticulate with dark brown; lower parts white, throat sometimes speckled with brown. Male with an internal vocal sac.

From snout to vent 70 millim.

Several specimens; Buenaventura and Cali.

This species is closely allied to *H. palmatus*, Blgr., but distinguished by the broader interorbital region, the smooth skin, and the much larger size.

Hylodes bufoniformis.

Tongue circular, nicked behind. Vomerine teeth in two strong transverse series close together behind the level of the choanæ. Head very large, much depressed, broader than long, broader than the body; snout broadly rounded, with obtuse canthus and concave loreal region; nostril much nearer the tip of the snout than the eye; interorbital space narrower than the upper eyelid; tympanum distinct, vertically oval, three fifths the diameter of the eye. Fingers short, merely swollen at the end, first longer than second; subarticular tubercles strong; toes short, webbed at the base, dilated into well-developed disks at the end; subarticular tubercles moderate; inner metatarsal tubercle elliptical, two thirds the length of the inner toe; outer metatarsal tubercle very indistinct. The tibio-tarsal articulation reaches the eye. Skin of body and limbs smooth; sides of head covered with small warts. Olive above, marbled with darker; flanks marbled with black; limbs with dark cross-bars; hinder side of thighs

blackish, with small round whitish spots; lower parts white, throat and limbs dotted or reticulated with brown.

From snout to vent 60 millim.

A single female specimen from Buenaventura.

Hylodes erythropleura.

Tongue oval, scarcely nicked behind. Vomerine teeth in two very small groups close together behind the level of the choanæ. Head moderate, as long as broad; snout rounded, with distinct canthus and slightly concave loreal region; interorbital space as broad as the upper eyelid; nostril nearer the tip of the snout than the eye; tympanum distinct, one third the diameter of the eye. Fingers moderate, dilated into moderately large disks, first shorter than second; subarticular tubercles moderate; toes with a slight rudiment of web, disks moderate; two small metatarsal tubercles. The tibio-tarsal articulation reaches halfway between the eye and the end of the snout. Skin smooth above; belly granular. Greyish above, sides of head and body darker; three darker stripes along the back; three dark light-edged bars on the upper lip; throat and belly whitish, much freckled with grey; sides of belly, sides of thighs, and lower surface of tibia carmine-red.

From snout to vent 31 millim.

A single female specimen from Cali.

Allied to *H. cerasinus*, Cope, and *H. Urichii*, Bttgr., both of which have longer hind limbs; moreover, the former has the tympanum smaller, the latter larger.

Hyla variabilis.

Tongue circular, entire, free behind. Vomerine teeth in two small groups between the choanæ. Head rather small, a little broader than long; snout rounded, as long as the diameter of the orbit; canthus rostralis indistinct; loreal region oblique, slightly concave; nostril equally distant from the end of the snout and the eye; interorbital space nearly as broad as the upper eyelid; tympanum moderately distinct, two fifths to one half the diameter of the eye. Fingers one-fourth webbed; disks as large as the tympanum; no projecting rudiment of pollex; toes three-fourths webbed; no tarsal fold. The tibio-tarsal articulation reaches the tympanum or the posterior border of the eye. Skin smooth; belly and lower surface of thighs coarsely granular. Pale greyish to dark purplish brown above, uniform or with more

or less numerous black dots; young with a whitish streak, dotted with black, on each side of the head and back, and with dark cross-bars on the limbs, which disappear in the adult; lower parts pale yellow, uniform in the young, throat and belly reticulate or marbled with brown in the adult. Male with an internal gular vocal sac.

From snout to vent 38 millim.

Numerous specimens from Cali.

III.—*Descriptions of Two new Lizards from the Transvaal.* By G. A. BOULENGER, F.R.S.

Pachydactylus affinis.

Snout a little longer than the diameter of the orbit. Ear-opening oval, oblique. Digits short, distinctly broader at the end than at the base, the dilated part with four or five lamellæ inferiorly. Head covered with minute granules, which are larger on the snout; back of head and temples with scattered slightly enlarged granules; naso-rostrals separated by one granule; rostral broader than deep; eight upper labials; six lower labials, the anterior larger than the symphysial, which is longer than broad. Body covered with very small granules intermixed with rather small, strongly keeled, oval tubercles, disposed irregularly; ventral scales small, increasing in size from throat to groin. Greyish above, irregularly spotted all over with dark brown; a dark brown streak on each side of the head, passing through the eye; lower parts white.

	millim.
Total length	68
Head	12
Width of head	9
Body	32
Fore limb	13
Hind limb	16
Tail (reproduced)	24

A single male specimen from the Rustenburg District, Transvaal, collected by Mr. W. Ayres.

This species is nearly related to *P. capensis*, Smith, and *P. formosus*, Smith, but easily distinguished by the much smaller dorsal tubercles and the absence of large tubercles on the occiput and temples.